

# WEST Search History

DATE: Monday, May 13, 2002

## Set Name Query

side by side

## Hit Count Set Name

result set

DB=USPT,PGPB; PLUR=YES; OP=OR

L15	L14 or l12	115	L15
L14	L11 and (atcc adj 21529)	1	L14
L13	L11 and (atcc 21529)	7984	L13
L12	L11 and (aspartokinase or (aspart\$ near3 kinase))	114	L12
L11	l1 or l2 or l3 or l4 or l5 or l6 or l7 or l8 or l9 or l10	18448	L11
L10	((((435/254.11)!.CCLS.)) )	1096	L10
L9	((((435/325)!.CCLS.)) )	5047	L9
L8	((((435/419)!.CCLS.)) )	1181	L8
L7	((((435/252.3)!.CCLS.)) )	5417	L7
L6	((((435/252.32)!.CCLS.)) )	114	L6
L5	((((435/115)!.CCLS.)) )	242	L5
L4	((((435/106)!.CCLS.)) )	299	L4
L3	((435/320.1)!.CCLS. )	11082	L3
L2	((536/23.7)!.CCLS. )	1516	L2
L1	((536/23.1  536/23.2)!.CCLS. )	9467	L1

END OF SEARCH HISTORY

WO 94/25605

6 221636

EP 0 219 027 (lysC allele - feedback-resistant)

DE -A-39 43 117 - from M20

EP -A-0 841 395

EP -A-0 857 784

Kalinowski 317 - from C.g. M58-1

Follettie pg 4096 - from C.g. N13 (called ask)

P 26512

JP 1-29559

EP -B-0387527

6319696

EP -A-0699759

WO 96/41871

WO 95/16042

6 338956

```
=> s atcc (2w) 21529
L1      0 ATCC (2W) 21529
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```
=> s 21529
L2      0 21529
```

```
=> d his
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(FILE 'HOME' ENTERED AT 15:30:32 ON 13 MAY 2002)
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FILE 'CAPLUS, BIOSIS' ENTERED AT 15:30:44 ON 13 MAY 2002
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L1      0 S ATCC (2W) 21529
L2      0 S 21529
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=>
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# WEST Search History

DATE: Monday, May 13, 2002

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR</i>			
L15	L14 and (mutant or mutation)	40	L15
L14	L7 and (coryneform or corynebacter\$ or brevibacter\$)	62	L14
L13	L8 and (380\$3 or thr380\$3 or t380\$3 or threonine380\$3)	24	L13
L12	L8 and (380\$3 or thr380\$3 or t380\$3 or threonine380\$3)	24	L12
L11	L8 and (380\$3)	24	L11
L10	L8 and (380\$)	21	L10
L9	L8 and 380	16	L9
L8	L6 with feedback	173	L8
L7	L6 same feedback	387	L7
L6	aspartokinase or (aspart\$ adj2 kinase) or lysc\$1 or ask\$1	20344	L6
<i>DB=USPT; PLUR=YES; OP=OR</i>			
L5	L4 not l3	20	L5
L4	21529	24	L4
L3	atcc near3 21529	4	L3
L2	atcc near 21529	4	L2
L1	3708395.pn.	1	L1

END OF SEARCH HISTORY

09/722441  
STN Search Summary

=> d his

FILE 'CAPLUS' ENTERED AT 14:34:30 ON 13 MAY 2002

L1 2351 S ASPARTOKINASE OR (ASPART(2W) KINASE) OR LYSC# OR ASK#

L2 2654 S ASPARTOKINASE OR (ASPART?(2W) KINASE) OR LYSC# OR ASK#

L3 265 S L2 AND FEEDBACK

L4 58 S L3 AND (CORYNEFORM OR CORYNEBACTER? OR BREVIBACTER? OR GLUTAM

**L5 53 S L4 AND PD<2001**

L6 1 S L2 AND (THR380? OR ((THR OR THREONINE) (2W) 380) OR T380#)

L7 967 S L2 AND (LYSINE OR ASPARTATE OR AMINO)

L8 231 S L7 AND FEEDBACK

L9 201 S L7 AND (CORYNEFORM OR CORYNEBACTER? OR BREVIBACTER? OR GLUTAM

**L10 57 S L8 AND (CORYNEFORM OR CORYNEBACTER? OR BREVIBACTER? OR GLUTAM**

**L11 1 S L4 NOT L10**

L5 ANSWER 1 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 2000:756870 CAPLUS

TI Novel desensitized aspartokinase of coryneform

bacteria and its use for producing L-lysine

IN Yokoi, Haruhiko; Ohnishi, Junko; Ochiai, Keiko; Yonetani, Yoshiyuki;

Ozaki, Akio

SO PCT Int. Appl., 33 pp. *late*

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000063388	A1	20001026	WO 2000-JP2456	20000414 <--
EP 1172437	A1	20020116	EP 2000-917314	20000414
PRAI JP 1999-110437	A	19990419		
WO 2000-JP2456	W	20000414		

L5 ANSWER 2 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1998:672657 CAPLUS

TI Increasing seed lysine content by lowering seed levels of lysine

ketoglutarate reductase and increasing dihydrodipicolinate synthase levels

IN Falco, Saverio Carl; McDevitt, Raymond Ervin, III; Epelbaum, Sabine Ursula

SO PCT Int. Appl., 232 pp.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9842831	A2	19981001	WO 1998-US6051	19980327 <--
WO 9842831	A3	19981210		
AU 9867801	A1	19981020	AU 1998-67801	19980327 <--
EP 973880	A2	20000126	EP 1998-913190	19980327 <--
BR 9811256	A	20000718	BR 1998-11256	19980327 <--
JP 2001502923	T2	20010306	JP 1998-543284	19980327
PRAI US 1997-824627	A1	19970327		
WO 1998-US6051	W	19980327		

L5 ANSWER 3 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1998:493560 CAPLUS

TI Manufacture of L-lysine with a coryneform bacteria carrying

mutations in several genes of lysine biosynthesis

IN Araki, Masayuki; Sugimoto, Masakazu; Yoshihara, Yasuhiko; Nakamatsu,

Tsuyoshi

SO Eur. Pat. Appl., 59 pp.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PI	EP 854189	A2	19980722	EP 1997-121443	19971205 <--
	JP 10215883	A2	19980818	JP 1997-333238	19971203 <--
	CN 1187540	A	19980715	CN 1997-120820	19971205 <--
	BR 9706059	A	19991005	BR 1997-6059	19971205 <--
	US 6004773	A	19991221	US 1997-985908	19971205 <--
PRAI	JP 1996-325659		19961205		

L5 ANSWER 4 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1998:441970 CAPLUS

TI Increasing the lysine and threonine content of the seeds of plants by introduction of genes for feedback-insensitive biosynthetic enzymes

IN Falco, Saverio Carl; Keeler, Sharon Jo; Rice, Janet Ann

SO U.S., 106 pp., Cont.-in-part of U. S. Ser. No. 178,212, abandoned.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5773691	A	19980630	US 1995-474633	19950607 <--
PRAI	US 1992-855414		19920319		
	US 1994-178212		19940106		

L5 ANSWER 5 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1998:405572 CAPLUS

TI Preparation of L-lysine with transgenic coryneform bacteria expressing aspartokinase mutant and diaminopimelate decarboxylase and phosphoenolpyruvate carboxylase

IN Hayakawa, Atsushi; Sugimoto, Masaichi; Yoshihara, Yasuhiko; Nakamatsu, Ko

SO Jpn. Kokai Tokkyo Koho, 38 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10165180	A2	19980623	JP 1996-325658	19961205 <--
	CN 1187539	A	19980715	CN 1997-120819	19971205 <--
	EP 857784	A2	19980812	EP 1997-121444	19971205 <--
	BR 9706058	A	19991005	BR 1997-6058	19971205 <--
	US 6221636	B1	20010424	US 1997-985916	19971205
PRAI	JP 1996-325658	A	19961205		

L5 ANSWER 6 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1997:803726 CAPLUS

TI Production of L-lysine in genetically engineered coryneform bacteria

IN Hirano, Seiko; Sugimoto, Masakazu; Nakano, Eiichi; Izui, Masako; Hayakawa, Atsushi; Yoshihara, Yasuhiko; Nakamatsu, Tsuyoshi

SO Eur. Pat. Appl., 63 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 811682	A2	19971210	EP 1997-108764	19970602 <--
	EP 811682	A3	19980610		
	JP 09322774	A2	19971216	JP 1996-142812	19960605 <--
	US 6090597	A	20000718	US 1997-852730	19970507 <--
	CN 1171442	A	19980128	CN 1997-112960	19970605 <--
	BR 9703475	A	19980929	BR 1997-3475	19970605 <--
PRAI	JP 1996-142812	A	19960605		

L5 ANSWER 7 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1997:631540 CAPLUS

TI L-isoleucine manufacture with Corynebacterium glutamicum and analysis of the regulation of the ilvBNC-operon

AU Morbach, Susanne  
SO Ber. Forschungszent. Juelich (1997), Juel-3398, 1-105 pp.

L5 ANSWER 8 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1997:232833 CAPLUS

TI Site-directed mutagenesis of the aspartokinase gene lysC  
and its characterization in Brevibacterium flavum

AU Lu, J.-H.; Liao, C.-C.

SO Lett. Appl. Microbiol. (1997), 24(3), 211-213

L5 ANSWER 9 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1997:141025 CAPLUS

TI L-lysine and its production with recombinant corynebacteria  
carrying gene lysC mutant and reinforced with other genes

IN Otsuna, Seiko; Sugimoto, Masakazu; Izui, Masako; Hayakawa, Atsushi;  
Nakano, Eiichi; Kobayashi, Masaki; Yoshihara, Yasuhiko; Nakamatsu,  
Tsuyoshi

SO PCT Int. Appl., 90 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9640934	A1	19961219	WO 1996-JP1511	19960605 <--
	CA 2224058	AA	19961219	CA 1996-2224058	19960605 <--
	AU 9659107	A1	19961230	AU 1996-59107	19960605 <--
	AU 705550	B2	19990527		
	ZA 9604665	A	19970107	ZA 1996-4665	19960605 <--
	BR 9606379	A	19970812	BR 1996-6379	19960605 <--
	EP 841395	A1	19980513	EP 1996-916305	19960605 <--
	CN 1192242	A	19980902	CN 1996-195952	19960605 <--
	JP 3106501	B2	20001106	JP 1997-500307	19960605 <--
PRAI	JP 1995-140614	A	19950607		
	WO 1996-JP1511	W	19960605		

L5 ANSWER 10 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1996:582412 CAPLUS

TI Molecular control mechanisms of lysine and threonine biosynthesis in amino  
acid-producing corynebacteria: Redirecting carbon flow

AU Malumbres, Marcos; Martin, Juan F.

SO FEMS Microbiol. Lett. (1996), 143(2-3), 103-114

L5 ANSWER 11 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1996:428332 CAPLUS

TI Engineering the homoserine dehydrogenase and threonine dehydratase control  
points to analyze flux towards L-isoleucine in Corynebacterium  
glutamicum

AU Morbach, S.; Kelle, R.; Winkels, S.; Sahm, H.; Eggeling, L.

SO Appl. Microbiol. Biotechnol. (1996), 45(5), 612-620

L5 ANSWER 12 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1995:974538 CAPLUS

TI Use of feedback-resistant threonine dehydratases of  
Corynebacterium glutamicum to increase carbon flux  
towards L-isoleucine

AU Morbach, Susanne; Sahm, Hermann; Eggeling, Lothar

SO Appl. Environ. Microbiol. (1995), 61(12), 4315-320

L5 ANSWER 13 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1995:951305 CAPLUS

TI Lysine and its manufacture with coryneform bacteria transformed with an aspartokinase mutant and a homoserine dehydrogenase mutant

IN Sugimoto, Masakazu; Usuda, Yoshihiro; Suzuki, Tomoko; Tanaka, Akiko; Matsui, Hiroshi

SO PCT Int. Appl., 77 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9523864	A1	19950908	WO 1995-JP268	19950223 <--
	EP 754756	A1	19970122	EP 1995-909969	19950223 <--
	CN 1147273	A	19970409	CN 1995-192867	19950223 <--
	US 5766925	A	19980616	US 1996-700359	19961008 <--
PRAI	JP 1994-35019		19940304		
	WO 1995-JP268		19950223		

L5 ANSWER 14 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1995:849249 CAPLUS

TI Process for producing L-lysine by fermentation

IN Kojima, Hiroyuki; Ogawa, Yuri; Kawamura, Kazue; Sano, Konosuke

PA Ajinomoto Co., Inc., Japan

SO PCT Int. Appl., 91 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9516042	A1	19950615	WO 1994-JP1994	19941128 <--
	JP 07155184	A2	19950620	JP 1993-308397	19931208 <--
	CA 2178589	AA	19950615	CA 1994-2178589	19941128 <--
	AU 9510770	A1	19950627	AU 1995-10770	19941128 <--
	AU 690168	B2	19980423		
	EP 733710	A1	19960925	EP 1995-901600	19941128 <--
	CN 1142856	A	19970212	CN 1994-194962	19941128 <--
	HU 74961	A2	19970328	HU 1996-1535	19941128 <--
	HU 219608	B	20010528		
	BR 9408288	A	19970826	BR 1994-8288	19941128 <--
	JP 2926990	B2	19990728	JP 1994-516087	19941128 <--
	SK 280629	B6	20000516	SK 1996-713	19941128 <--
	PL 181614	B1	20010831	PL 1994-314852	19941128
	ZA 9504518	A	19961202	ZA 1995-4518	19950601 <--
	US 6040160	A	20000321	US 1996-648010	19960529 <--
PRAI	JP 1993-308397	A	19931208		
	WO 1994-JP1994	W	19941128		

L5 ANSWER 15 OF 53 CAPLUS COPYRIGHT 2002 ACS

AN 1995:645144 CAPLUS

TI Cloning of gene for phosphoenolpyruvate carboxylase variants of Escherichia that are free of feedback inhibition by aspartic acid

IN Sugimoto, Masakazu; Suzuki, Tomoko; Matsui, Hiroshi; Izui, Katsura

SO PCT Int. Appl., 75 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9506114	A1	19950302	WO 1994-JP1365	19940817 <--
	CA 2169170	AA	19950302	CA 1994-2169170	19940817 <--
	AU 9480991	A1	19950321	AU 1994-80991	19940817 <--
	AU 682547	B2	19971009		
	EP 723011	A1	19960724	EP 1994-924384	19940817 <--
	HU 73690	A2	19960930	HU 1996-240	19940817 <--
	HU 219600	B	20010528		
	CN 1133615	A	19961016	CN 1994-193905	19940817 <--

BR 9407625	A	19970121	BR 1994-7625	19940817 <--
RU 2133772	C1	19990727	RU 1996-107112	19940817 <--
PL 181380	B1	20010731	PL 1994-313119	19940817
CZ 289051	B6	20011017	CZ 1996-524	19940817
JP 07111890	A2	19950502	JP 1994-196777	19940822 <--
JP 3013711	B2	20000228		
JP 08070860	A2	19960319	JP 1994-196778	19940822 <--
US 5876983	A	19990302	US 1996-596366	19960429 <--
US 5919694	A	19990706	US 1997-967104	19971110 <--
PRAI JP 1993-209775	A	19930824		
JP 1993-209776	A	19930824		
JP 1994-153876	A	19940705		
WO 1994-JP1365	W	19940817		

L5 ANSWER 16 OF 53 CAPLUS COPYRIGHT 2002 ACS  
 AN 1995:590325 CAPLUS  
 TI Transgenic canola and soybean seeds with increased lysine  
 AU Falco, S. C.; Guida, T.; Locke, M.; Mauvais, J.; Sanders, C.; Ward, R. T.; Webber, P.  
 SO Bio/Technology (1995), 13(6), 577-82

*E. coli  
mutant  
lyc*

L5 ANSWER 17 OF 53 CAPLUS COPYRIGHT 2002 ACS  
 AN 1995:540472 CAPLUS  
 TI Effect of different levels of aspartokinase on the lysine  
 production by Corynebacterium lactofermentum  
 AU Jettten, M. S. M.; Follettie, M. T.; Sinskey, A. J.  
 SO Appl. Microbiol. Biotechnol. (1995), 43(1), 76-82

L5 ANSWER 18 OF 53 CAPLUS COPYRIGHT 2002 ACS  
 AN 1995:504510 CAPLUS  
 TI Genetic characteristics of new L-lysine-producing strains  
 AU Cheng, Wen-Ling; Chang, Chun-Chin; Wang, Jyh-Shiou; Liu, Yao-Tung  
 SO Taiwan Tangye Yanjiuso Yanjiu Huibao (1994), 145, 25-31  
 LA Chinese

L5 ANSWER 19 OF 53 CAPLUS COPYRIGHT 2002 ACS  
 AN 1995:297664 CAPLUS  
 TI Aspartate kinase of Brevibacterium flavum  
 MJ233 and its mutants free of L-lysine feedback inhibition  
 IN Sato, Yukie; Pponno, Nobutake; Kobayashi, Miki; Kohama, Keiko; Kurusu, Yasuro; Yugawa, Hideaki  
 SO Jpn. Kokai Tokkyo Koho, 28 pp.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06261766	A2	19940920	JP 1993-55451	19930316 <--

L5 ANSWER 20 OF 53 CAPLUS COPYRIGHT 2002 ACS  
 AN 1994:317353 CAPLUS  
 TI Molecular cloning of gene for aspartokinase of wild-type and  
 mutant Corynebacterium  
 IN Sugimoto, Masakazu; Ogawa, Yuri; Suzuki, Tomoko; Tanaka, Akiko; Matsui, Yutaka

SO Jpn. Kokai Tokkyo Koho, 28 pp.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06062866	A2	19940308	JP 1993-101450	19930427 <--
WO 9425605	A1	19941110	WO 1993-JP1809	19931214 <--



EP 699759 A1 19960306 EP 1994-902116 19931214 <--  
 US 5688671 A 19971118 US 1995-532828 19951027 <--  
 PRAI JP 1992-110292 19920428  
 JP 1993-101450 19930427  
 WO 1993-JP1809 19931214

L5 ANSWER 21 OF 53 CAPLUS COPYRIGHT 2002 ACS  
 AN 1994:50461 CAPLUS  
 TI Increasing the lysine and threonine content of the seeds of plants by  
 introduction of genes for feedback-insensitive biosynthetic  
 enzymes

IN Falco, Saverio Carl  
 SO PCT Int. Appl., 139 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9319190	A1	19930930	WO 1993-US2480	19930318 <--
	AU 9339233	A1	19931021	AU 1993-39233	19930318 <--
	AU 675933	B2	19970227		
	EP 640141	A1	19950301	EP 1993-908395	19930318 <--
	JP 07504821	T2	19950601	JP 1993-516720	19930318 <--
	ZA 9301978	A	19940919	ZA 1993-1978	19930319 <--
PRAI	US 1992-855414		19920319		
	WO 1993-US2480		19930318		

L5 ANSWER 22 OF 53 CAPLUS COPYRIGHT 2002 ACS  
 AN 1993:553168 CAPLUS  
 TI Gene structure and expression of the Corynebacterium flavum N13  
 ask-asd operon  
 AU Follettie, Maximillian T.; Peoples, Oliver P.; Agoropoulou, Catherine;  
 Sinskey, Anthony J.  
 SO J. Bacteriol. (1993), 175(13), 4096-103

L5 ANSWER 23 OF 53 CAPLUS COPYRIGHT 2002 ACS  
 AN 1993:123032 CAPLUS  
 TI Isolation and properties of .alpha.-ketobutyrate-resistant  
 lysine-producing mutants from Brevibacterium flavum  
 AU Shio, Isamu; Sugimoto, Shinichi; Kawamura, Kazue  
 SO Biosci., Biotechnol., Biochem. (1993), 57(1), 51-5

L5 ANSWER 24 OF 53 CAPLUS COPYRIGHT 2002 ACS  
 AN 1993:97775 CAPLUS  
 TI Strains of Corynebacterium glutamicum with different  
 lysine productivities may have different lysine excretion systems  
 AU Broeer, Stefan; Eggeling, Lothar; Kraemer, Reinhard  
 SO Appl. Environ. Microbiol. (1993), 59(1), 316-21

L5 ANSWER 25 OF 53 CAPLUS COPYRIGHT 2002 ACS  
 AN 1993:1999 CAPLUS  
 TI Temperature-sensitive plasmids for Coryneform bacteria  
 IN Sugimoto, Masakazu; Kojima, Hiroyuki; Tanaka, Akiko; Matsui, Hiroshi;  
 Satoh, Katsuaki; Nakamatsu, Tsuyoshi

SO Fr. Demande, 30 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2667875	A1	19920417	FR 1991-12701	19911015 <--
	FR 2667875	B1	19950505		
	JP 05007491	A2	19930119	JP 1991-245291	19910619 <--

IDS

Nothing  
to 380

JP 07108228	B4	19951122		
JP 07203977	A2	19950808	JP 1995-5223	19950117 <--
JP 2763054	B2	19980611		
US 5616480	A	19970401	US 1995-408188	19950322 <--
US 5756347	A	19980526	US 1996-766488	19961213 <--
PRAI JP 1990-273348		19901015		
JP 1991-245291		19910619		
US 1991-774846		19911011		
US 1994-182361		19940118		
US 1995-408188		19950322		

L5 ANSWER 26 OF 53 CAPLUS COPYRIGHT 2002 ACS  
AN 1992:610668 CAPLUS  
TI Isolation and prominent characteristics of an L-lysine hyperproducing strain of *Corynebacterium glutamicum*  
AU Schrupf, Baerbel; Eggeling, Lothar; Sahm, Hermann  
SO Appl. Microbiol. Biotechnol. (1992), 37(5), 566-71

L5 ANSWER 27 OF 53 CAPLUS COPYRIGHT 2002 ACS  
AN 1992:587995 CAPLUS  
TI Mechanism of lysine uptake and secretion by *Corynebacterium glutamicum*  
AU Broer, Stefan; Kraemer, Reinhard  
SO Dev. Biochem. (1992), 29(Mol. Mech. Transp.), 67-74

L5 ANSWER 28 OF 53 CAPLUS COPYRIGHT 2002 ACS  
AN 1992:565134 CAPLUS  
TI A novel system for genetic engineering of amino acid producing corynebacteria and the analysis of AEC-resistant mutants  
AU Puehler, A.; Kassing, F.; Winterfeldt, A.; Kalinowski, J.; Schaefer, A.; Schwarzer, A.; Seep-Feldhaus, A.; Rossol, I.  
SO Proc. - Eur. Congr. Biotechnol., 5th (1990), Volume 2, 975-8.  
Editor(s): Christiansen, Claus; Munck, Lars; Villadsen, John. Publisher: Munksgaard, Copenhagen, Den.

IDS L5 ANSWER 29 OF 53 CAPLUS COPYRIGHT 2002 ACS  
AN 1992:122102 CAPLUS  
TI Genetic and biochemical analysis of the aspartokinase from *Corynebacterium glutamicum*  
AU Kalinowski, J.; Cremer, J.; Bachmann, B.; Eggeling, L.; Sahm, H.; Pruehler, A.  
SO Mol. Microbiol. (1991), 5(5), 1197-204

L5 ANSWER 30 OF 53 CAPLUS COPYRIGHT 2002 ACS  
AN 1991:534008 CAPLUS  
TI Flow control of lysine biosynthesis in *Corynebacterium glutamicum*  
AU Eggeling, L.; Cremer, J.; Schrupf, B.; Sahm, H.  
SO DECHEMA Biotechnol. Conf. (1990), 4(Pt. A, Lect. DECHEMA Annu. Meet. Biotechnol., 8th, 1990), 103-6

L5 ANSWER 31 OF 53 CAPLUS COPYRIGHT 2002 ACS  
AN 1991:490668 CAPLUS  
TI Lysine manufacture with recombinant *Corynebacterium* or *Brevibacterium*  
IN Cremer, Josef; Eggeling, Lothar; Sahm, Hermann.  
SO Eur. Pat. Appl., 12 pp.

nothing to 380

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 435132	A1	19910703	EP 1990-124557	19901218 <--
	EP 435132	B1	19940817		
	DE 3943117	A1	19910704	DE 1989-3943117	19891227 <--
PRAI	DE 1989-3943117		19891227		

L5 ANSWER 32 OF 53 CAPLUS COPYRIGHT 2002 ACS  
 AN 1991:465660 CAPLUS  
 TI Control of the lysine biosynthesis sequence in Corynebacterium glutamicum as analyzed by overexpression of the individual corresponding genes

AU Cremer, Josef; Eggeling, Lothar; Sahm, Hermann  
 SO Appl. Environ. Microbiol. (1991), 57(6), 1746-52

L5 ANSWER 33 OF 53 CAPLUS COPYRIGHT 2002 ACS  
 AN 1991:465618 CAPLUS  
 TI Aspartokinase genes lysC.alpha. and lysC .beta. overlap and are adjacent to the aspartate .beta.-semialdehyde dehydrogenase gene asd in Corynebacterium glutamicum  
 AU Kalinowski, Joern; Bachmann, Bernd; Thierbach, Georg; Puehler, Alfred  
 SO Mol. Gen. Genet. (1990), 224(3), 317-24

L5 ANSWER 34 OF 53 CAPLUS COPYRIGHT 2002 ACS  
 AN 1991:227480 CAPLUS  
 TI Lysine manufacture with recombinant Corynebacterium glutamicum  
 IN Bachmann, Bernd; Thierbach, Georg; Kalinowski, Joern; Puehler, Alfred  
 SO Eur. Pat. Appl., 17 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 387527	A1	19900919	EP 1990-102685	19900212 <--
	EP 387527	B1	19940622		
	DE 3908201	A1	19900927	DE 1989-3908201	19890314 <--
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 AU Shio, Isamu  
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 AU Shio, Isamu; Sugimoto, Shinichi; Yoshino, Hiroshi; Kawamura, Kazue  
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 AU Menkel, Elke; Thierbach, Georg; Eggeling, Lothar; Sahn, Hermann  
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AU Sano, Kotosuke; Shiio, Isamu

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AU Nakayama, Kiyoshi; Tanaka, Haruo; Hagino, Hiroshi; Kinoshita, Shukuo

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AU DeWitt, Natalie D.; Dos Santos, Carlos F. Tourinho; Allen, Kenneth E.; Slayman, Carolyn W.

CS Departments of Genetics and Cellular and Molecular Physiology, Yale University School of Medicine, New Haven, CT, 06510, USA

SO J. Biol. Chem. (1998), 273(34), 21744-21751

AB . . . secretory pathway; Asp-378 mutations also block the biogenesis of co-expressed wild-type ATPase and lead to a dominant lethal phenotype. To ask whether these defects are specific for Asp-378 or whether the phosphorylation region as a whole is involved, alanine-scanning mutagenesis was. . . immunofluorescence of intact cells also gave evidence for a spectrum of behavior, ranging from mutant ATPases completely arrested (D378A, K379A, T380A, and T384A) or partially arrested in the endoplasmic reticulum (ER) to those that reached the plasma membrane in normal amts.. . .

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AU Lu, J.-H.; Liao, C.-C.

SO Lett. Appl. Microbiol. (1997), 24(3), 241-213

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